

### LDAR Report

# Mark West

Liberty-Shaw Comp. Stn.

Annual Report NSPS Subpart 0000a PERIOD: 2019

Prepared By:

**Target Emission Services** 

800 Town and Country Blvd. (Suite 300) Houston, Texas, 77024

WWW.TARGETEMISSION.COM

Report Generated on: Sep 27, 2019



		rk West	Report:	Annual LDAR		
District:		iberty	Regulation(s):	NSPS Subpart 0000a		
acility Name:		aw Comp. Stn.	Report Date:		Sep 27, 2019	_
GPS Coord. This report s	40.241300 satisfies the requireme	-80.269100 ents of 40 CFR §60.5420a(b)(	Period:  (7) for the collection of fugitive	2019-Jan-01	TO above referenced compre	2019-Dec-3
Name to the second state of						- Stationi
Monitoring		nformation required t	to be reported per §6			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Hatter Tell Nittleway Nits	1925 I 196250003	02/07/2019	05/29/2019	Q3 08/16/2019	N/A	N/A
Survey Start Date/Time		11:00 AM	9:00 AM	9:15 AM	N/A	N/A
Survey End Date/Time		02/07/2019 2:00 PM	05/29/2019 12:15 PM	08/16/2019 12:15 PM	N/A	N/A
OGI Tecl		Travis Schubert	James Crossley	Zachary Hudecek	N/A	N/A
Ambient T	emp. (°F)	55	80	79	N/A	N/A
Sky Con	ditions	Mostly Cloudy, 50%-90% sky is clouds	Partly Cloudy, 10%-50% sky is clouds	Partly Cloudy, 10%-50% sky is clouds	N/A	N/A
Max. Wind S	peed (MPH)	6	6	10	N/A	N/A
LDAR Ins		Optical Gas Imaging/GFX- 320	Optical Gas Imaging/GFX- 320	Optical Gas Imaging/GFX- 320	N/A	N/A
60.5420a(b)(7)(vi) Monitorii		No deviations from the Monitoring Plan	No deviations from the Monitoring Plan	No deviations from the Monitoring Plan	N/A	N/A
Deviation(s)	Explanation	N/A	N/A	N/A	N/A	N/A
	THE REST OF THE PARTY OF THE PA	7)(vii) - Number and type	of components for whi	ch fugitive emissions we	ere detected	
Valv		3		N 1000 1000 1000 1000 1000 1000 1000 10		
Pressure Rel		5	1	1		
Open-End						
Flang						
Compre						
Instrum						
Mete	rs	-				
Othe	er					
Total No. of Lea	aks Detected	8	1	1		
§60.54	20a(b)(7)(viii) - Numt	per and type of fugitive e	missions components t		required in §60.5397	a(h)
Valve						
Connec						
Pressure Reli	ef Devices			vu-se-see ve-		
Open-Ende	d Lines					
Flang	es					
Compre	ssors					
Instrum	ents					
Mete						
Othe						
.5420a(c)(15)(ii)(i)	7) - Number and typ	e of components that we	re tagged as a result of §60.5397a(h)(3)(ii).	not being repaired durin	ng the monitoring su	rvey as required
Valve		3				
Pressure Reli		5	1	1		
Open-Ende						
Flang	A. C.					
Compres		-				
Instrum						
Meter					-774 CHONE - 41 1/2 CHONE	
Othe						
660 543	20a(b)(7)(ix) - Numbe	r and type of difficult-to-	monitor and upperforts	nonitor funitive and ad-		STALL STALL
Valve	5	Je of announctor			components monito	, isa
Connec						
Pressure Reli					435-311 <i>0-211-3</i>	pro-Accession
Open-Ende						
Flange						A
Compres						
Instrum						
Meter						
Othe		420a(b)(7)(x) - Date of successf	A CONTRACTOR OF THE CONTRACTOR	Cara and the same of the same	Market Market and Commence of the Commence of	The State of the S



#### **Fugitive Emissions Components Placed on DOR**

This summary satisfies the annual reporting requirements of §60.5420a(b)(7)(xi), "number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair".

		Compon	ent		
Quarter	Q1	Q2	Q3	N/A	N/A
Survey Date	2/7/2019	5/29/2019	8/16/2019		
Valves					A Machinery of the Error de Alexandry
Connectors					
Pressure Relief Devices					
Open-Ended Lines					
Flanges					
Compressors					
Instruments					
Meters					
Other					
Total No. of Leaks on DOR	0				
Date Surveyed	Emission ID #	Component Type	Current Repair Status	r Delay of Repair Explanation / Justification	



# **Fugitive Emissions Components Repaired During Reporting Period**

This summary satisfies the annual reporting requirements of §60.5420a(b)(7)(x), "date of successful repair of the fugitive emission component" and §60.5420a(b)(7)(xii), "type of instrument used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding".

Date Surveyed	Emission ID #	Date of Successful Repair	Repair Confirmation Method / Instrument
2019-02-07	25010429	2019-Feb-12	Snoop
2019-02-07	25010430	2019-Feb-12	Snoop
2019-02-07	25010431	2019-Feb-12	Snoop
2019-02-07	25010432	2019-Feb-12	Snoop
2019-02-07	25010434	2019-Feb-19	Snoop
2019-02-07	25010435	2019-Feb-19	Snoop
2019-02-07	25010436	2019-Feb-19	Snoop
2019-02-07	25010433	2019-Feb-20	Snoop
2019-05-29	27010872	2019-Jun-12	Snoop
2019-08-16	27910114	2019-Aug-20	Snoop



#### **OGI Technician Training and Experience**

Monitoring surveys are performed by personnel that are trained in the proper operation of the OGIC (Optical Gas Imaging Camera) to be used in the monitoring survey and that have prior experience using OGICs for the purposes of identifying fugitive emissions. Additionally, monitoring personnel are familiar with the types of equipment located at a natural gas compressor station. All monitoring personnel review each site specific monitoring plan prior to performing monitoring surveys at the Facility.

All Monitoring Technicians follow a protocol containing technical procedures, training requirements, and individual and team performance audits. This protocol ensures that each crew member follows a prescriptive training program. The training program includes minimum required field times for each module. Each module uses both written testing and on-site work performance audits to evaluate the crew member on their work performance.

Each crew member must successfully complete their training modules to be allowed to work as a member of the main field crew. The protocol also includes an audit program to evaluate work performance on an on-going basis. This system ensures that each crew member is adhering to the procedures and guidelines of the protocol.

Each monitoring technician:

- 1) holds a strong knowledge of oil and gas operations and has a detailed understanding of the various processes that are involved in the transportation and processing on natural gas.
  - 2) is trained (certified) and experienced in the use of fugitive emission detection and measurement equipment;
- 3) has a minimum of 1000 hours of experience on the use of optical gas imaging, ultrasonic leak detection and emission flow rate measurement
  - 4) maintains required safety training and strong understanding of applicable TARGET Safe Operating Procedures; and
  - 5) received performance audits to ensure compliance to our prescriptive fugitive emission assessment protocol

The protocol contains technical procedures, training requirements, and individual and team performance audits. The purpose of our assessment protocol is to:

- 1) Maintain a high degree of Quality Control;
- 2) Ensure that all sources of fugitive emissions are identified;
- 3) Ensure that all source data is consistently recorded to provide reliable and effective emission reduction recommendations.

This protocol eliminates the common problems and barriers that cause many programs to fail. Our staff are trained and audited to avoid many of the common fugitive emission program problems. Some of these common problems include:

- Inexperienced with camera use and the concepts of infrared thermography
- Not using multiple camera angles
- · Constantly moving the camera from scene to scene without pausing in each view to look for gas images
- · Many leaks are missed by relying solely on the automatic mode (manual mode can be more effective in certain situations)
- · Scanning too fast and missing components

Accurate data collection and entry is crucial to maintaining an effective Fugitive Emission Management Program. The data management protocol includes a data QA/QC review process that contains three levels of evaluation:

- 1) Technician Self Check at the end of each assessment the technician must review each emission entry to locate and remediate any data inconsistencies
- 2) Team Lead Review at the end of each work day the Team Lead will run a QA/QC evaluation on each assessment and emission to ensure that data has been entered following the TARGET Protocol.
- Project Manager Evaluation on a weekly basis the project manager will run all emission data through a QA/QC data evaluation to detect and eliminate any inconsistencies.



#### OGI Technician Training and Experience

Survey Date	OGI Technician	Certification Date	Months of OGI Experience
2019-Feb-07	Travis Schubert	2018-Jul-24	8
2019-May-29	James Crossley	2017-Sep-05	21
2019-Aug-16	Zachary Hudecek	2019-Jul-31	21